LANGIR™

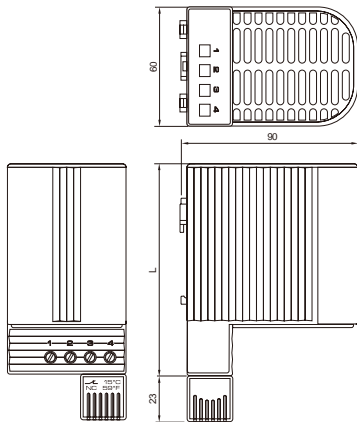## Touch-Safe Heater CSF 060 Series   50W to 150W
(semiconductor)

■ **Low surface temperature**

■ **Integrated thermostat**

■ **Quick mounting due to clip fixing**

■ **Double insulated (plastic)**

■ **Wide voltage range**

■ **Small size**

Touch-safe heater for the use in enclosures with electrical/electronical components. The design of the heater supports the natural convection which results in a high air-current of warm air. The surface temperatures on the accessible side surfaces of the housing are kept down as a result of the heater design. This model with plug-in thermostat does not require additional wiring. The heaters are designed for permanent operation. This heater is also available in a version without thermostat (CS 060).
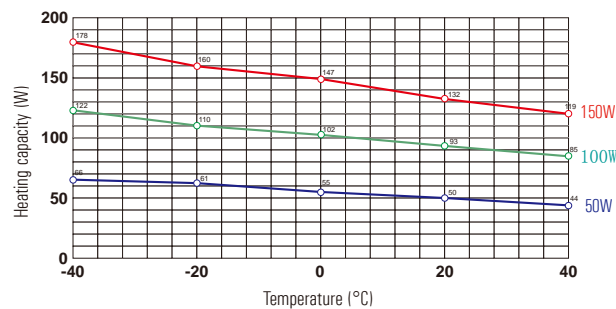
CE cᴿᴺus DVE RoHS
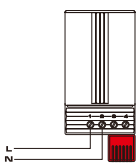2002/95/EC compliant

■ **Technical Data**

Operating voltage	120-240VAC* (min. 110V, max. 265V)
Heating capacity	see table
Heating element	PTC resistor - temperature limiting
Surface temperature	< 80°C (176°F), except upper protective grille
Connection	4-pole terminal 2,5mm², torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating / Storage temperature	-20 to +70°C (-4 to +158°F) / -45 to +70°C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)
Approvals	VDE + UL File No. E150057 (according to UL499
	in combination with UL508A)
Note	other voltages on request

*Operating with voltages below 140VAC reduces heating performance by approx. 10%.

Heater CSF 060

Example of connection

Heating capacity / Ambient temperature diagram CSF 060

Art. No.	Heating capacity[1]	Inrush current max.	Air outlet temperature[2]	Switch-off temperature[3]	Starting temperature[3]	Dimensions	Weight (approx.)
06001.0-00	50W	2.5A	+86°C (186.8°F)	+15°C (59°F)	+5°C (41°F)	110 x 60 x 90mm	0.30kg
06002.0-00	50W	2.5A	+86°C (186.8°F)	+25°C (77°F)	+15°C (59°F)	110 x 60 x 90mm	0.30kg
06011.0-00	100W	4.5A	+120°C (248°F)	+15°C (59°F)	+5°C (41°F)	110 x 60 x 90mm	0.30kg
06012.0-00	100W	4.5A	+120°C (248°F)	+25°C (77°F)	+15°C (59°F)	110 x 60 x 90mm	0.30kg
06021.0-00	150W	8A	+145°C (293°F)	+15°C (59°F)	+5°C (41°F)	150 x 60 x 90mm	0.50kg
06022.0-00	150W	8A	+145°C (293°F)	+25°C (77°F)	+15°C (59°F)	150 x 60 x 90mm	0.50kg

[1]ambient temperature - see Heating capacity / Ambient temperature diagram;   [2]measured 50mm above protective grille;   [3]tolerance of ± 5K;